Official Undergraduate News Organ of Massachusetts Institute of Technology

A Record of Continuous News Service · · · for · · · Over Fifty Years

VOL. LII No. 70.

CAMBRIDGE, MASS., WEDNESDAY, DECEMBER 14, 1932.

Price Five Cents

HIGH PERFORMANCE SAILPLANE BOUGHT BY STUDENT GROUP

A. E. S. Plans To Enter Ship In National Glider Meet **Next Summer**

DR. LANGE IS ADVISER

Purchase of a high - performance German soaring glider was announced Menday by the Aeronautical Engineering Society. The ship, which was obtained through Dr. Karl O. Lange of the Meteorological Department, was formerly the property of the Cape Cod Gliding School at Wellfleet.

It is known as a "Professor" sailplane, and was built in Germany by the Roon-Rossitten Gesellschaft. The glider is of a type which has established many records in Germany, and has itself soared more than fourteen hours over the dunes of Cape Cod.

Unusual Wing Construction

The single wing, which has a span of over 55 feet and an average breadth of only about five feet, is made in three sections, of equal length. The middle one is bolted to the fuselage at its center, and at its outer ends with struts.

The two outer sections are unsupported externally; they are held to the center section by two bolts at the top and bottom of the very deep front spar, and by one bolt at the rear spar. Most of the load, in both the center and outer sections, is taken by the extremely rigid structure formed by the front spar and the plywood forming the leading edge.

Plywood Used Throughout

Plywood has been used throughout the whole ship; about the only parts that are not made of it are the wing and tail ribs; this makes for an extremely light and strong structure. The fuselage is monocoque; that is, the plywood covering, supported by plywood bulkheads, takes all the load, unsupported by any strong longitudinal members. The landing gear is a wooden skid under the forward part of the fuselage.

(Continued on page three)

Educator Speaks On Problems, Poverty, Of Indian Farmers

Ignorance and Religious Belief Are Responsible Says Lecturer

Showing how India's veneration of the cow and of all other living things, together with its people's general ignorance, has led to its almost universal condition of poverty, Sam Higginbottom, missionary and close friend of Mahatma Gandhi, spoke yesterday afternoon at 4:00 o'clock in Room 10-250 on "The Educational Problem in

He described the quality of the soil, the ideal climate, and the nature of the people, all tending toward the improvement of the race, and then demonstrated how contrary to what might be expected, India lags far behind most nations because of its religious belief. India, said Mr. Higginbottom, has persisted in the veneration of the cow, with the result that the bovine population of the country is now well over 160,000,000. The cattle and wild animals are eating the country out of existence, he said, for the Indian farmer does nothing to prevent the annual destruction of his crops.

Quoting statistics of the government in India, he stated that there were sixty cows to every hundred acres of land, and that their upkeep was the equivalent of the annual cost of supporting an army of sixty thou-(Continued on page four)

Will Present Forum On Liquor Problems



BEN H. SPENCE

B. SPENCE HOLDS FORUM ON LIQUOR

Journalist Speaks On "Canada's Liquor Systems" In T. C. A. Meeting

"Canada's Liquor Systems" will be the subject of Ben H. Spence, Canadian journalist and speaker, who will give the second of a series of two addresses sponsored by the Technology Christian Association, at 4:00 this afternoon in Room 10-250. He will be introduced by Godfrey L. Cabot of the Institute's corporation,

Subject

German,

German,

SATURDAY, JANUARY 21

Intermediate

MONDAY, JANUARY 23

9 A. M.

Structures Sanitary Eng., Adv. Mechanism of Machines Applied Mechanics

Appner Mechanics
Automotive Engineering
Architectural History
(2 hours)
Architectural History

Architectural Fistory
(2 hours)
European Civ. & Art
Arch. Humanities
(2 hours)
Analytical Chemistry
(2 hours)
Chemistry of Foods
(2 hours)
Heartic Circuits

Physics (College Transfer)

Line Spectra
Int. to Theoret, Physics
Evaporation
(2 hours)
Special Examinations

MONDAY, JANUARY 23

1:30 P. M.

Ry. Maint. & Signals Water Power Engineering Refrigeration

Professional Relations
(2 hours)
European Civ. & Art
(2 hours)
Elec. Eng., Prin.
Elec. Eng., Prin.
Hist. Develop. of Physics
Chemical Eng.
Naval Architecture
Naval Architecture
Aerodyn. Airplane Design
Synoptic Meteorology
Business Management
English & History
Vector Analysis
Special Examinations

TUESDAY, JANUARY 24

9 A. M.

9 A. M.
Soil Mechanics
European Civ. & Art
Physical Chem. Elem.
(2 hours)
Physical Chemistry
Elec. Eng., Prin.
Elec. Eng., Prin.
Elec. Railways
Alt. Current Mach.
Rail. Elec. Traction
Ind. Microbiology
Electromag. Wave Theo. I
Electrochemistry
Chemical Eng. II
Theo of Warship Design

Chemical Eng. II Theo. of Warship Design

Retrigeration Adv. Refrigeration Fire Assaying 3.431, 3.432 Metallurgy Professional Relations

(2 hours)
Electric Circuits
Advanced Network Theo,
1nd, Microbiology
Health Education

(Continued on page four)

Dorm Dance Uses Color Filters and Weighing Machine

Flat Rate of \$1.50 Will Be Charged To Bashful Heavyweights

No arguments will be taken by the men at the door of the Dormitory Dance. If her hair is red, the fact will be proved without question by the chromo-photometer which is being installed at the entrance. The bonus that will be collected for the flaming beauties will be twenty cents. while dizzy blondes will cost fifteen cents over the regular charge of a penny a pound, and brunettes, who for obvious reasons will be the most numerous will get by the door for an extra ten cents.

If the big berthas have an aversion to stepping on the telltale scales, a flat charge of \$1.50 will be levied. It is recollected that at the last dance of its kind, the prize for the heavy-(Continued on page four)

LIBERAL CLUB ELECTS 1932 - 1933 OFFICERS

Officers for the coming year of the Liberal Club were elected at a meeting on Monday, December 12. These include Joseph Dauber, '34, president; David Horvitz, '34, treasurer; Deborah V. Rubenstein, '34, secretary; and Lawrence C. Ebel, '34, and Milton Silverman, '36, members at large of the Executive Committee.

This week the Liberal Club will present its new constitution to the Institute Committee for approval.

Third Institute Man To Win Rhodes Scholarship



IVAN A. GETTING, '33

BEAVER KEY PLANS BASKETBALL DANCE

Informal Affair to be Held After Basketball Game With R. I. **Next Saturday**

Following the basketball game on Saturday, the Beaver Key Society will hold its first informal dance of the year in the Walker Memorial. The Techtonians, a ten-piece orchestra which has played at many prominent

(Continued on page four)

GETTING IS CHOSEN AS RHODES SCHOLAR IN FINAL SELECTION

Has High Scholastic Standing As Well As Prominence On Gym Team

IS THIRD INSTITUTE MAN

For the third time in the history of the Institute a Technology student has been awarded a Rhodes Scholarship. Ivan A. Getting, '33, captain of the Gym team and student in Course VIII was selected last Monday evening from a group of twelve students nominated for the honor from New England.

The Rhodes Scholarship will enable Getting to study any subject he chooses at Oxford University, England, or any other recognized undergraduate school there for two years with the privilege of a third year of study if his record warrants it.

Late last evening Getting, whose cumulative average is 4.82, and who is now working under the direction of President Karl T. Compton, conducting research in the field of electronics, said that he proposes to continue this research work at Oxford.

Will Follow Theoretical Research

He said that he intended to follow up the theoretical part of the work rather than turn to the applied science. The award was announced after more than 12 hours of examination and deliberation on the part of the New England District Committee.

The committee, which sat in nearly continuous session from 9 A. M. to 9:30 P. M., was headed by Charles Pelham Curtis, Jr., Boston lawyer and a Fellow of Harvard University. It included Dean Paul Nixon of Bowdoin, secretary, representing Maine and Massachusetts; Attorney John R. Mc-Lane of Manchester, N. H., representing Vermont and New Hampshire; G. Van Santvoord, headmaster of Hotchkiss School, representing Connecticut and Rhode Island, and A. C. Valentine, house master at Yale College.

Each of the twelve candidates-two (Continued on page four)

Gym Coach Commends Captain Getting On Scholastic Success

Squad Hears Neudorf Comment On Bright Prospects For Winter Season

"Captain Getting should take a first place in every meet except at Navy. and the team should lose on only that one meet", said Coach Hans Neudorf at the gym team dinner last night in the North Hall of Walker Memorial. Fifteen members of the squad were present to hear Coach Neudorf, assistant Coach Abbott, and Captain Getting discuss prospects for the year.

"Our most serious problem is with the freshmen," continued Coach Neudorf. "We spend some time on him, teach him several good tricks and he seems to lose interest. Stick with us," was his plea. 🦠

After being heartily congratulated by the coach, for winning the Rhodes year will have to be put in the gym on Thursday afternoon from 5 till 6 e'clock without fail." Heretofore the candidates were allowed to come up

Scholarship, Captain Getting arose and thanked the team for its hearty co-operation, but lamented the fact that the freshmen had not shown as much improvement as was expected. "It is true," he admitted, "that several of the new men have learned rapidly, but the showing of the class as a whole has been rather disappointing. The freshmen beginning next

(Continued on page four)

First Term Examination Schedule

I car	110.	Buojecc	1 046	140.	Subject	I car
	13.13 16.21 17.31 D11	Theo, of Warship Design Airship Theory Building Construction Draw, & Desc. Geom. Political Economy	G G 3	16.06 17.41 Ec61	Airplane Struct., Adv. Building Construction Business Law Special Examinations	G 4 4
	Ec31 Ec50	(2 hours) Corporations	3		THURSDAY, JANUARY 26 9 A. M.	
	L63	French, Advanced Special Examinations	ï	1.32 2.15	Design of Harbor Works Applied Mechanics	G 3
GGG®		TUESDAY, JANUARY 24 1:30 P. M.		2.151 2.295 2.30	Applied Mechanics Applied Hydrodynamics	G 3 2 G 3-4
G 3	1.41 1.411 1.472	Structures Structures Struct. Theo, & Design	4	5.41 5.76	Materials of Eng. (2 hours) Organic Chemistry I Thermodyn. & Chemistry Electric Power Dist. Anatomy & Histology Tech. of Food Supplies Automotive Fuels Accounting German. Elementary Calculus Calculus Diff. Equations of Elec.	$\vec{\hat{G}}$
G 1	2.251 2.281	Dynamies of Machines Adv. Mech & Th. of Elas.	4 G G	6.651 7.11	Electric Power Dist. Anatomy & Histology	G 3
2	3.41. 4.471	3,411, 3,412 Metallurgy European Civ. & Art	4	7.701 10.79	Tech, of Food Supplies Automotive Fuels	ਰ੍ਹੀ
3 5	6,04 6,221 6,251	Central Stations	4	Ec50 L13 M11	German, Elementary Calculus	4
3	6.281	Wire Com., Principles Elec. Com., Principles	4	M12 M31	Calculus Diff. Equations of Elec.	1 3
3	6.541 7.80	Power Gen. Stations Biochemistry	G 4		Apecial Essammations	
G G	8.21 8.801	Elem. of Electron, Phen. Electrochemistry, Prin.	3.4		THURSDAY, JANUARY 26 1:30 P. M.	,
GGGG1	10.21 10.70 13.54	Prin, of Combustion Varing Engineering	G	1.25	Eng. Const. & Estimates Hydraulies	3-4 1
1	13.56 16.62	Structures. Structures. Struct. Theo. & Design Dynamics of Machines. Adv. Mech & Th. of Elas. 3.411, 3.412. Metallurgy European Civ. & Art Elec. Eng., Prin. Central Stations. Elec. Mach. Design Wire Com., Principles Elec. Com., Principles. Power Gen. Stations. Biochemistry. Elem. of Electron. Phen. Electrochemistry. Prin. Industrial Chemistry. Prin. Industrial Chemistry. Prin. of Combustion. Marine Engineering. Marine Engineering. Aeronautical Lab. (2 hours)	4 4	1.64 1.75 3.13	Hydraulics Hydraulic & Samtory Eng. Geophys. Prospect. Elem.	+
4 3 G	M21 Lo5	Calculus	2 2	4.421	Architectural History	2
G		French, Advanced Special Examinations	~	4,423		3
	V	/EDNESDAY, JANUARY 25 9 A. M.		5.12	Quantitative Analysis (Course V only) General Biology Ship Construction	2
4	1.21 1.211	Rail, & High, Eng. Rail, & High, Eng. (2 hours)	3 3	7.01	General Biology Ship Construction (2 hours)	2-3 2
4 4 G	1.561	(2 hours) Structures. Advanced	G	16.901	Introductory Meteorology (2 hours)	
3 3.4	1.731 2.21 2.40	Adv. Water Power Eng. Applied Mechanics Eng. Thermodynamics	3 3-G	17.21 Ec21	Building Construction Political Economy	2 2-3
4	3.01 4.61	Mining Methods Town Planning	3 3		(2 hours) Special Examinations	
G	5.51	Chemistry, General Organic Chem, 11	1 G		FRIDAY, JANUARY 27 9 A. M.	
4	5.684 6.301 6.58	Phys. Chem., Elem. Elec. Com., Principles Open Circuit Applicie	33	2.05	Mechanism of Machines	3
4 G 3-4	V- 0.0				(2 hours)	_
	6.661 8.161	Elec. Mach. Dev., Prm. Optics	Ğ 3	3.05 5.61	(2 hours) Elements of Mining	3 3
3 4	6.661 8.161 8.541 10.17	Elec. Mach. Dev., Prin. Optics Electromag, Theory Industrial Chemistry	G 3 4 3	3.05 5.61 5.111 6.01	(2 hours) Elements of Mining	3 3 3-4 3
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3 4	6.661 8.161 8.541 10.17 10.68 17.51 M791	Elec. Mach. Dev., Prin. Optics Electromag. Theory Industrial Chemistry Materials of Chem. Eng. Structural Analysis Th. & App. Elasticity Special Examinations	G 3 4 3 G 3 G	3.05 5.61 5./11 6.01 7.281 7.301 8.50 13.58	(2 hours) Elements of Mining Physical Chem. 1 Physical Chem. 1 Elec. Eng., Prin. Sanitary Biology Bacteriology Heat & Thermodynamics Marine Engineering	3 4
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3 4 4.G	2.231	1:30 P. M. Mechanics Heat Engineering Thermodynamics	3-4 4	1.48	(2 hours) Elements of Mining Physical Chem. 1 Physical Chem. 1 Elec. Eng., Prin. Sanitary Biology Bacteriology Heat & Thermodynamics Marine Engineering Draw. & Desc. Geom. Special Examinations FRIDAY, JANUARY 27 1:30 P. M. Foundations	1
3-4-04-05-G-G-3-4-05-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-	2.231 2.49 2.461 2.71 3.03 6.27	1:30 P. M. Mechanics Heat Engineering Thermodynamics Machine Design Economics of Mining Illumination	2 3-4 4 4 4	1.48 5.10 7.58 10.31	(2 hours) Elements of Mining Physical Chem. 1 Physical Chem. 1 Elec. Eng., Prin. Sanitary Biology Bacteriology Heat & Thermodynamics Marine Engineering Draw. & Desc. Geom. Special Examinations FRIDAY, JANUARY 27 1:30 P. M. Foundations Qualitative Analysis Vital Statistics Chemical Eng.	1
3 4G 4014 G5G G3	2.231 2.44 2.461 2.71 3.03 6.27 6.39T 6.512	1:30 P. M. Mechanics Heat Engineering Thermodynamics Machine Design Economics of Mining Illumination Eng. Electronics Electric Circuits	2 3-4 4 4 4	1.48 5.10 7.58 10.31 13.50 M 22	(2 hours) Elements of Mining Physical Chem. 1 Physical Chem. 1 Elec. Eng., Prin. Sanitary Biology Bacteriology Heat & Thermodynamics Marine Engineering Draw. & Desc. Geom. Special Examinations FRIDAY, JANUARY 27 1:30 P. M. Foundations Qualitative Analysis Vital Statistics Chemical Eng. Marine Engineering Differential Equations	1
3 4G 4014 G5G G3	2.231 2.461 2.461 2.71 3.03 6.27 6.39T 6.512 6.571	1:30 P. M. Mechanics Heat Engineering Thermodynamics Machine Design Economics of Mining Illumination Eng. Electronics Electric Circuits Illumination Public Health Admin	2 3-4 4 4 4 4 6 6 4	1.48 5.10 7.58 10.31 13.50	(2 hours) Elements of Mining Physical Chem. 1 Physical Chem. 1 Elec. Eng., Prin. Sanitary Biology Bacteriology Heat & Thermodynamics Matine Engineering Diaw. & Desc. Geom. Special Examinations FRIDAY, JANUARY 27 1:30 P. M. Foundations Qualitative Analysis Vital Statistics Chemical Eng. Marine Engineering Differential Equations Advanced Calculus Special Examinations	3343333541 4214G22G
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3404214 050 034004640 4 3	2.231 2.461 2.461 2.71 3.03 6.27 6.39T 6.512 6.571 7.541 7.711 8.03	1:30 P. M. Mechanics Heat Engineering Thermodynamics Machine Design Economics of Mining Illumination Eng. Electronics Electric Circuits Illumination Public Health Admin. Tech. of Food Products Physics	2 3-4 4 4 4 4 6 6 4	1.48 5.10 7.58 10.31 13.50 M 22	(2 hours) Elements of Mining Physical Chem. 1 Physical Chem. 1 Elec. Eng., Prin. Sanitary Biology Bacteriology Heat & Thermodynamics Marine Engineering Draw. & Desc. Geom. Special Examinations FRIDAY, JANUARY 27 1:30 P. M. Foundations Qualitative Analysis Vital Statistics Chemical Eng. Marine Engineering Differential Equations Advanced Calculus Special Examinations SATURDAY, JANUARY 28	1

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Official News Organ of the Undergraduates of M. I. T.

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MARKETING EDUCATION

TIEWING education as a product that is bought and sold is an approach that is used far too infrequently in analyzing the value of its services. Yet it is certainly a commodity in which there is an open market and free competition among colleges and among

Looking at our product from the marketing point of view, the first question to ask is, what need is it offered to fill. Just asking the question tells us the futility of some courses which present subjects from an academic point of view and more clearly justifies the welcome trend toward bread and butter courses. For the need is, of course, for such material as may enable one to enjoy and profit most from the opportunities presented by this world

How completely present day education fills this need is perhaps our next question. And the depression is perhaps the best clue to the answer. So-called educated students are turned out by the thousands with no practical knowledge of how society functions, of what common business practises are. For his knowledge of government many a college student must turn to the newspapers instead of to his university professor. In his technical field the student learns a lot of fine and true principles. But in the walks of life he will be paid, not for his knowledge of these principles but for his ability to apply them.

To overcome education's known deficiency in teaching application, the law schools less than a century ago began the now famous case system of teaching. This case system is the mathematics teachers' "problem", applied to abstract subjects. It has recently been extended to accounting and business management. Soon we hope to find it in other fields.

Is our product abreast of the latest developments? There we find a source of most justifiable criticism. It is only too frequently that graduate seminars are the only courses wherein what happens in the field affects the subject matter without a two or three year time lag intervening.

Finally, does our product satisfy the consumer? Will we get repeat sales? All too often our customer's next purchase is from a competitor because, as Professor E. L. Bowles pointed out in T. E. N., the average instructor is so imbued with the importance of his own subject that he falls into a dreary habit in presenting

But sales methods must be improved! Education must be put into more palatable form, the package must be beautified to conform to latest package design. The basic elements may remain the same, if they satisfy the true need, but in this competitive era each school, each professor, must be constantly on the alert to improve his course, his product, lest he find that his prestige is waning.

SUPPORT THE KEY

ROR years after the Calumet Club became inactive, visiting athletes were left to shift for themselves as best they could. Two years ago, at just about this time, a score of progressive Juniors saw the need for some kind of action and the Beaver Key Society was organized. They began to function immediately, meeting the visiting teams at the station and seeing them comfortably settled. The Society wishing to increase its activity and realizing that the work of Field Day was too much for one man to handle, pitched in and took much of the load from the shoulders of the Field Day Manager.

This work is financed entirely by its annual basketball dances. One quarter of the revenues of these dances goes to the Athletic Association, with the other three quarters being used by the society. Following the Rhode Island State game next Saturday night the first Key dance will be held. The functioning of the Society is dependent on the success or failure of this dance. The student interest aroused in this talk last year, body should lend its support.



For lo, the jolly Yuletide spirit doth fill the air, Christmas approaches, and with it all the things essential to the Technology conception of a life of comfort and supreme blessing. Which is another way of saying that the chances for merry wassail and no work to worry about will make all good little engineers anticipate the coming vacations with just that degree of anticipation which will produce a corresponding degree of discomfort when vacations come. Because everyone feels so guilty with their pressing obligations suddenly removed.

We note with regard and no little concern the relatively tremendous peroration of our esteemed contemporary, the "Topics of the Times". Herein is given a slightly jaundiced presentation of that writer's impression of the world with the so-called 'engineers" leading the show.

Somewhere in the dim dead past someone has managed to give a garbled definition of the hardy practical man of affairs as compared to the engineer, and both of these as set beside the so-called man of science. And so the "Topics of the Times" thinks it would be perfectly terrible to have old hoky-pokes in charge of the universe as compared to the smooth way things are now managed by brilliant and scintillating men of the world.

Our purpose is hardly editorial, and the effort to be either scathing or witty is too much for a mind made febrile by constant recording of the Institute's "humorous" occurrences. However, there is something slightly ironical to our immature thought, in the spectacle of practical men of affairs, users of that type of inexact formulae known as "rule of thumb", shouting down the sordid alley of affairs that they can make a much better show of it than the engineers, users of that type of rule of thumb known as exact formulae, could possibly ever effect. A species of remark very similar to "If I can't be captain, I won't play, because it's my football." Ho for the madhouse, Jeeves.

The Lounger feels moved to poetry, which is a bad sign at best, and something terrible at worst. However, it can't be love, in spite of the scathing comment of our room-mate, because Married", is a very welcome foil for ing and have our own moments of do the picture justice. self-esteem, which in this case happened to grind out in free verse. Look out for it.

The Ice Storm

A soft and drizzling cloud of rain Falls, and freezes, and is gone. Leaving

A fairyland of ice. Walks, houses, trees, Are sheathed in a glittery, in a slipperv

Coat of ice. A cold wind blows. A nearby streetlamp gleams On gently waving, softly crackling, Silver coated branches, Weaving fairy patterns In a fairyland of ice. And then, like men, They crackle once too often. The ice falls off and leaves, -

The same old trees.

DR. SIBLEY TO TALK ON PREVENTION OF COLDS

"Colds, Their Causes, Treatment and Prevention" will be the subject of a talk by Dr. Benjamin E. Sibley of the Department of Hygiene, to be given in the clinic of the Homberg Infirmary tomorrow at four o'clock. All students who are interested are invited to attend the lecture.

Dr. Sibley says that because of the prevalence of colds, and also, the it was decided to repeat this lecture.

Commercial Processes Practised In Fire Metallurgy Laboratory

Models of Commercial Furnaces Used For Demonstrating Fire Refining

The basement of Building 8 contains a laboratory with which very few students are acquainted. It is here that commercial metallurgical processes are carried out on a small scale. The laboratory, founded by Professor Richards, was originally in the basement of Rogers Building, and was one of the first of its kind in the country. Its purpose is to demonstrate ore-smelting and fire refining of various metals.

Professor C. R. Hayward, who is in charge of this laboratory, explained | will be distilled and condensed for fuace to smelt the ores, and also several small melting furnaces. Besides these there is room to put in special appara- the ore is raked over by hand to extus for research.

roasting furnace. The impure copper tation. is melted, and then air is blown through it from iron pipes. This air interest in connection with the blastoxidizes the impurities, which then furnace - a Cottrell electric dustfloat to the surface where they may easily be skimmed off. The copper, meanwhile, has become saturated with copper oxide. The copper, together

See The Movies

RKO KEITH'S

Goona Goona", and "Slightly Married" "Goona Goona", a romance of the island of Bali in the south seas, is a good picture of its type, but the type leaves many things to be wished for.

The sole redeeming feature of the production is the beautiful scenic photography. The Balinese, who are said to have the most gracefully formed women in the south seas, are portrayed performing their daily tasks in their native haunts and at the same time a drama involving their caste system is unfolded. It pictures the downfall of a young nobleman because of his love for a girl of the lower class.

The subordinate feature, "Slightly we have yet to lose the old appetite or the Bali story. Evalyn Knapp and lie sleepless o'nights, so we hope our Marie Prevost in the female parts public will bear with us. However, and Walter Byron in the masculine we tire of eternal jesting and mock- role act very creditably and certainly

> The plot, which is the sustaining factor of the film, deals with the young scion of a famous family who marries a girl while under the influence of liquor to save her from a prison sentence. They have a misunderstanding and are divorced even though they have fallen in love in the meantime. The girl has a baby and shows it to her ex-husband just in time to prevent his marriage to another woman, and the picture comes to an end with a happy reconciliation.

The vaudeville bill is well rounded out and completes a cleverly varied and balanced program.

with the exide, is covered with charcoal and stirred with an unseasoned birch pole about an inch and a half in diameter. Thus the oxide is reduced, and the copper is cast into solid blocks.

Gold and Silver In Lead Ore

The presence of small quantities of gold and silver in impure lead make the lead-refining process interesting. The lead is melted in an iron pot having a half ton capacity, and some zinc is stirred in. This unites with the gold and silver, and floats to the surface, where it may be removed. The part which is skimmed off is heated in a graphite retort to a bright red heat, when all of the zinc some of the work which goes on here. ture use. The residue contains the There are two types of furnace for rich bullion mixed with a little lead. roasting sulfide ores, a copper-refin- The lead is oxidized and removed in ing furnace, a cupelling furnace, a the cupelling furnace, leaving a few sintering machine, a small blast-furn- ounces of gold and silver from the original half ton of lead.

In one of the two sulfide roasters pose the material to oxidation. The The work in copper refining takes other one, however, is a cylindrical place first in a gas-fired furnace multiple-hearth furnace in which rowhich was built over from a rotary tary rakes furnish the necessary agi-

There is one feature of particular catcher. A line containing 220 volts A. C. is transformed to forty thousand volts, and then is changed to direct current by a mechanical rectifier. A chain hanging in the center of the flue pipe is charged negatively, and particles of dust receiving a charge from it are attracted to the sides of the pipe which is grounded.

Furnaces Are Laboratory Models

The furnaces are mostly laboratory models of actual furnaces used in commercial practice, with a few adaptations to suit them to smaller scale production. The air which is fed to the furnaces comes from a low-pressure impellor-type blower and an aircompressor which maintains a pressure of thirty pounds per square inch. All of the furnaces are equipped with pyrometers connected to a central indicator, so that the temperature of each may be seen at a glance.

By experimenting with furnaces such as these, the students taking courses in metallurgy are enabled to become familiar with the actual commercial processes which take place in large smelting and refining plants.

Lydia Lee - Luncheon

Near The Dorms Opposite Aeronautical Laboratory Reasonable rates for good food. Open 7.30 A. M. to 3.00 P. M.

UUKE UNIVERSITY SCHOOL OF MEDICINE

DURHAM, N. C.

Four terms of eleven weeks are given each year. These may be taken consecutively (M. D. in three years) or three terms may be taken each year (M. D. in four years). The entrance requirements are intelligence, character and at least two years of college work, including the subjects specified for Grade A Medical Schools. Catalogues and application forms may be obtained from the Dean.

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10% Reduction to all Tech Students.

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15 West Street

HOOPMEN TO FACE CLARKSON AND R.I. STATE THIS WEEK

Shaughnessy Expected To Take Place of Bob McIver at Center Position

BOTH TEAMS ARE STRONG

Technology's basketball team faces stiffer opposition this week than it had last Saturday, when it meets Clarkson Tech on Thursday and Rhode Island State on Saturday. Both games are to be played in the Hangar Gym, where last year's team was undefeated. Clarkson is new on the schedule this year, while Rhode Island State is one of the four teams to defeat the Engineers last season. Since Clarkson has the reputation of having a strong team, both games should be close and hotly contested.

The Rhode Island State game was played away last year and the final score was 41-26 against the Technology quintet. While nothing is known at present about the Friars, it is safe to say that they are a strong aggregation, and that they will give Coach McCarthy many an anxious moment before the game is over.

Clarkson Has Big Team

The Clarkson team, from upper New York State, is playing four games in Boston this week. Last night they played Boston University, Thursday they play Technology, Friday they meet Tufts, and Saturday they go up against Northeastern. Four members of the team were on the freshman team which last year was the only one to defeat the strong Syracuse quintet, one of the best in the country. The center and forwards on this team are towering six-footers, and this fact should give them a decided advantage over the shorter Technology men.

Coach McCarthy has been trying Tom Shaughnessy in the center position these last few days; for Bob Mc-Iver, who has been playing there all along, will be leaving today for his home in Arizona and will not be here to play in any of the games until after Christmas vacation. Added to this, Tom Murphy, another candidate for the same position, hurt his finger in the Newport game and may not be able to take part. Shaughnessy is not any too tall, and will probably not get the jump as often as McIver would, but he is fast and clever and is a very good man to have on the

Amenta To Start At Guard

If Coach McCarthy definitely decides to keep Shaughnessy at center, Pat Amenta will play at guard with Co-Captain Sysko. This would give a fast, alert team which, if rather shorter than the general run, ought to make up for that fact by its speed and aggressiveness.

The other possibility is to use one of the second-string men at center. But this might seriously handicap the team because the first-string men have been playing together for some time now, and the presence of a second-stringer in the line-up would disrupt the teamwork; therefore it will few productions proved that this plan probably not be done.

test for the Engineers and if they can hopelessly inadequate. come through them successfully, they will not have to worry about the other games on the schedule too much. And these contests will also test the Walker Memorial, drawn up by Mr. validity of the statement that the Carlson, may be put to use. These Engineers are unbeatable on their own | plans call for a large stage which will

Freshmen In Action Saturday

The freshmen will meet the Rhode Island State freshmen on Saturday, in the first official game that they will have played. The Wentworth Institute contest scheduled for last Saturday was called off, because of the inability of the Wentworth team to appear in the afternoon. In its stead the freshmen played a team composed of graduate students and men on the dormitory teams. Coach McDonnell is expected to use the same line-up that was to play in Saturday's game.

PART OF DRAMASHOP CAST



Leading Players of Dramashop Who Entertain In "The Pigeon"

Dramashop Finances and Management Are Good Reports Professor Fuller

Faculty and Group of Students Co-operate In Support of Dramashop

In an interview yesterday, Professor Dean Mattison Fuller, director of dramatics at the Institute, gave an years Professor Fuller has had charge of the only purely dramatic organization at Technology.

has been excellent. Especially valuable have been the criticisms of many Faculty members not entirely of the English Department, who have given their utmost support to this activity. "Particular credit," said Professor Fuller, "goes to Professor Emerson, of the Department of Architecture, whose efforts on behalf of the Drama-

Continues Successful **Dramashop Direction**



DEAN M. FULLER

shop have facilitated production of its plays.'

Student Support Helpful

The support of a small group of students has also been essentially helpful.

Although it was the original policy of the Dramashop to produce nothing but American plays, work on the first must be changed, since the equipment These two games will prove an acid of the Commons Room stage was

> The Dramashop, Professor Fuller stated, is looking forward to the time when the plans for the extension of greatly enhance future productions.

> At present the organization is running at the capacity demanded by the student body; when the demand increases, then this capacity will in-

Financial Condition Good

The financial condition of the Dramashop has always been good. After it was discovered that there was a surplus in the treasury when the cost of the first play had been defrayed, the decision to continue producing was announced. This first play, "The Hairy Ape", was not financed, but expenditures were settled after the last performance.

Some of the best plays that have been presented, according to Professor Fuller, are in this order: "The Antonio.'

"The management of the Drama shop is at its best this year," says informal report on the condition of Professor Fuller. "Never before in the Dramashop. For the past five our history has it functioned so well nor accomplished so much." Management of Dramashop

The management of the Dramashop According to him the co-operation is as follows: General Manager, Robof the Faculty with the Dramashop ert A. A. Hentschel, '33; Production Manager, Charles B. Gamble, '34; Stage Manager, W. Whitney Stueck, '35; Lighting Manager, John A. Miller, '35; Property Manager, Robert Bellinson, '34; Assistants, Samuel John A. Harshaw, '36; A. James Ull- ing. man, '36; Morton H. Kanner, '36; Robert L. Johnson, '36.

RAILROAD TICKETS ON SALE AT THE T. C. A.

Representatives of the leading railroads passing through Boston will be at the T. C. A. office from 12:15 to 1:45 daily, beginning today and continuing until next Thursday, to supply students with tickets for journeys during the Christmas holidays. Salesmen from the Boston and Albany line, New York, New Haven, and Hartford ine, and the Boston and Maine, will have full information on schedules, prices, and dates for their respective roads. This is the fourth consecutive year that the ticket department of the T. C. A. has furnished this service. The man in charge this year is Harvey Morash, '35.

An innovation has been introduced into this department this year. A good many men wish to drive somewhere and take along a paying passenger or two, while others desire to go somewhere as a paying passenger. Students in either of these two categories are invited to fill out a blank at the T. C. A. office stating where and when they are going, and what charge they intend to make or to pay. The T. C. A. will notify those whose applications have been filled.

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105 Causeway Street

ALLSTON *Convenient to Fraternity Men

SAILPLANE BOUGHT BY STUDENT CLUB

(Continued from page one)

Extraordinary aerodynamic "cleanness" makes possible the very high performance of this ship. Its sinking speed is about 2 feet per second; at most favorable flying speed, which is about 30 miles per hour or 40 feet per second, it would go forward forty feet for each two feet of lost altitude. This means that the best gliding angle is about one in 20.

Student Project

Purchase and operation of the sailplane is entirely a student project; the funds were raised by students, the necessary overhauls will be made by students, and it is hoped that the flying will be done by them.

Dr. Lange will act as advisor. He is a graduate of Technische Hochschule Darmstadt and was one of the pioneers in the sailplane development in Germany which has attracted such wide attention. He is an authority on the meteorology of soaring, and is a "Three-Gull" pilot, which is the highest rating for glider pilots given logical advice noteworthy results will by the Federation Aeronautique Internationale.

Flight Training

In order that members of the Soci-Hairy Ape", "The Show Off", "Mar- ety may become sufficiently proficient days. Dr. Lange will then talk on last riage", "George Dandin", and "Mr. to fly the "Professor", training in a good primary or secondary glider is being arranged for. Lieutenant Henry B. Harris, '29, graduate of the Army Air Corps Flying School at Kelley Field and qualified as an instructor by the National Aeronautical Association will supervise the training.

Eligibility of members of the society to take the training and, later, to fly the "Professor", will be determined on the basis of number of hours of work put in on any A. E. S. project. After a certain number of hours, the student will become eligible M. Trimble, '33; Treasurer, Harold R. for flight training; after more time, and after satisfying Dr. Lange as to Paul, '35; Harrison S. Woodman, '36; his ability, he will be eligible for soar-

> The number of hours necessary will be announced soon. All shop work is in charge of James B. Kendrick, '34, vice-president of the Society, and is in progress every Saturday and most other afternoons in Building 33. Work

THE TECH Discontinues Until End of Vacation

On account of the approaching vacation and the fact that many members of the Institute leave early, this will be the last issue of THE TECH until the end of the holiday. THE TECH takes this opportunity to wish its readers a merry Christmas and a happy New Year.

is expected to start on the "Professor" this Saturday. All men interested are requested to report at the A. E. S. Office, Room 33-122, this afternoon from 4 to 5, or to see Bentley or Kendrick this week.

Hope To Enter Elmira Meet

It is hoped that a sufficient number of men will qualify to permit entering the National Glider Meet in Elmira next summer. Dr. Lange says that there are only four sailplanes in the country equal to the "Professor", and it is hoped that with his meteorobe obtained.

These matters will be discussed at the next smoker, which will probably be held immediately after the holisummer's national soaring contest, and discuss plans for the next one.

GRILL DINER

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THRIFT SUGGESTIONS

Pencil and Paper Weight Combination, set\$1.00 Polished Brass Cigarette Humidors, each Tech Seal Book Ends, pair \$1.95

and

Many other small Miscellaneous Articles specially selected for the Christmas Shopper.

TECHNOLOGY BRANCH H. C. S.

Remember Your Dividend

CALENDAR

Wednesday, December 14 5:00 P. M. — "Ambassadors' " Rehearsal, East Lounge, Walker Memorial. 6:00 P. M. - Society of Automotive Engineers' Dinner, Faculty Dining Room

4:00 and 7:00 P. M. - Tech Show Cast Tryouts, Faculty Dining Room,

and North Hall, Walker Memorial.

7:00 P. M. — Alpha Chi Sigma Smoker, Grill Room, Walker Memorial.

7:30 P. M. — Tech Show Tryouts, Walker Gym, Walker Memorial.

Thursday, December 15

Walker Memorial.

5:00 P. M. — Banjo Club Rehearsal, East Lounge, Walker Memorial. 5:00 P. M. — Institute Committee Meeting, West Longe, Walker Memorial. 6:00 P. M. — Plant Engineering Club Dinner, Grill Room, Walker Memorial. 8:00 P. M. — Basketball Game, Tech vs. Clark University.

Friday, December 16 9:00 P. M. - Dorm Dance, Main Hall and East and West Lounges, Walker

Saturday, December 17 8:00 P. M. - Basketball Game. Tech vs. Rhode Island State, Hangar Gym.

9:00 P. M. — Beaver Key Society Dance, Main Hall, Walker Memorial. 6:00 P. M. — A. I. E. E. Dinner, North Hall, Walker Memorial.

Set Next Indoor Track Meet For Coming Saturday

Eight Events Listed; Results Of Last Week Promise Powerful Team

Coach Oscar Hedlund's second handicap track meet of the indoor season will be held this coming Saturday Coach Hedlund was highly pleased with last Saturday's meet, and is confident that this coming meet will be just as successful. As this is to be the last meet until after the Christmas vacation, all the candidates are expected to be out doing their best to show that they are worthy of making the team.

Last week's races showed some excellent performances on the part of Wrigley, Walsh, Hill, Souza, and Horton, all of whom are working for the varsity one mile relay. These men ran in the 300-yard dash, and despite the fact that they ran in their sweat suits, their times were exceptionally good. All of this seems to indicate that Technology will be well represented in the mile relay.

Jarrell Pulls Surprise

Goochy Smith, captain-elect of next year's cross-country team, and Bob Mann are promising candidates for the two mile relay. Billy Ball and Captain Dick Bell have started showing some life in the sprints, both finishing well up in Saturday's races. Dick Jarrell, a dark horse, surprised everyone at the meet by getting a third in the 1000-yard run. Although he did this from a 20-yard handicap, he nevertheless did some strong running, and in all probability he will show something in the mile relay.

Among the freshmen Johnson, Svenson, and Runkel did fine work in the sprints. Later Runkel ran in the varsity 50-yard dash and finished second from a three-foot handicap. Bill Royce, captain of this year's freshman cross-country team, and Hitchcock proved by their showing Saturday that they will be a big help to yearling the mile relay. Gordon Donnan, who broke the freshman pole vault record at the meet, shows promise of duplicating this feat several more times before the season comes to a close. In fact, Coach Bob Bowie predicts he will do over twelve feet, which will be a good record for future freshmen to shoot at.

High-Jumpers In K. of C. Meet

Technology will enter five men in the high jump in the Knights of Columbus meet, which will be held at the ty-four pounder, while a mere slip of Boston Garden next month. They are a girl who balanced the scale at sev-Sherburne, Ray, Pierce, Tomkinson, enty-four pounds was the lightest. and Walker. Incidentally, the high jump is the only field event held at at 9 o'clock and will continue to the this meet.

o'clock.

(freshmen), 60-yard low hurdles, 60yard dash (varsity), 440-yard dash Professor and Mrs. Leicester F. Ham-(freshmen), 440-yard dash (varsity), %-mile run, shot put, and broad jump.

INFIRMARY LIST

Stacy Carkhuff, '36 Dexter Stevens, '35 M. P. Williams, '33

GETTING WINS PLACE AS RHODES SCHOLAR

(Continued from page one) from every New England State-was personally examined by the committee and then required to remain on call for further examination if necessary.

Getting, who came to the Institute on an Edison Scholarship which he won in the first of the Edison contests in 1929, is the son of Milan Getting, Czecho-Slovakian consul to Pittsburgh. He graduated with high honors from the Schenley High School in Pittsburgh, where he was president of his class. He was also captain of his high school gym team.

At Technology, in addition to being in the highest scholarship group and captain of the gym team, he has shown a keen interest in music. He plays both the piano and the pipe-organ, and during his second year at the Institute, played with the Combined Musical Clubs.

Successful on Gym Team

Last March, Getting was awarded the straight T for his exceptional work on the gym team. He had a successful season in the sport last year when he excelled on the side horse and the parallel bars. He is one of the mainstays of the gym team this year and is expected to place in every one of his events in the meets this winter.

He has two brothers: one a student at the University of Pittsburgh, and the other now attending Harvard Medical School, and formerly a student at John Hopkins University. He lives with the latter in a medical building on Commonwealth Avenue, where he works for his living quar-

Only two other men from the Institute have ever won the coveted selection as a Rhodes Scholar since its inception. The first Technology man to be elected was Leonard W. Cronkhite, '05, of Boston, who is now president of the Cronkhite Firm. The second was Morris L. Shaffer, '30, who was elected in December, 1930.

The Massachusetts candidates for the scholarships were picked from eleven applicants, who were approved by their colleges, by a State committee, following personal interviews with the applicants. Personality, character and scholarship were the chief points considered in selecting the State candidates and also the final four winners for the New England

COLOR FILTERS WILL FEATURE DORM DANCE

(Continued from page one) weight went to a one hundred and six-

Dancing will start on Friday night tunes of the Pied Pipers of Putnam Saturday's meet will start at 2:30 Hall till one o'clock. Those who have consented to act as chaperones are Mr. The events are: 60-yard dash and Mrs. James R. Killian, Jr., '26, Mr. and Mrs. Ralph T. Jope, '28, and

> When the plans for the dance were made public, the Boston papers made much of the novel arrangements, and | several red heads were approached to find their reactions to the high premiums placed upon their bright pigments. The consensus of opinion was that the demand was quite just, because of the scarcity of auburn-haired girls.

TECH SHOW CHORUS TRYOUTS ANNOUNCED

The first regular chorus rehearsal of the recently revived Tech Show as well as additional chorus tryouts are to be held in Walker Gymnasium tonight at 7:30. The additional tryouts are for those men who could not make the last meeting, at which a group of potential chorus girls was selected.

Trials for the cast of the Tech Show will be held tomorrow in the Faculty Dining Room beginning at 4 o'clock in the afternoon and again at 7 o'clock under the supervision of Professor William C. Greene. No experience is needed in this type of work, Paul Lappé, manager of the show, assures prospective participants.

Professor Robert E. Rogers' comment on the Show of three years ago indicates the success of past performances and the ability of the men who directed them:

"This man Langdon Matthews is the best in the business, in his ability to take a crowd of knock-kneed engineers, all round-shouldered and flatchested from bending over test-tubes and slide-rules, and turn them out as good-looking a crowd of Albertina Rasche girls as you'd ask for. The skill, precision, and pep, and even, in the individuals, grace were astonishing. Of course, they were helped by TECH IN TURKEY ON sure-fire music."

In another part of the article, Professor Rogers continues: "Instead of the old Show, this year we had some twenty-one different bits, songs and dances, skits and specialties, some good, some not so good, but all varied, rapid, and brief. The idea is all right and needs only practice."

GYM COACH COMMENDS GETTING ON SUCCESS

(Continued from page one) any three days of the week. This step has been taken so that on Thursday organized instruction may be given to the group as a whole.

Manager Charles F. Feuchter, '34, announced that tomorrow night the team would give a demonstration at Sargent School of Physical Education. This would be an opportunity for lining the men up for varsity positions, he intimated.

HIGGINBOTTOM SPEAKS ON PROBLEMS OF INDIA

(Continued from page one) sand British and two hundred thousand native troops.

Mr. Higginbottom, who is president of Allahabad Christian College in Allahabad, India, continued and pictured to his listeners the problems and life of farmers of India. Cabbages weighing forty pounds are not uncommon on these farms, and other vegetables grow equally well; only the fact that there is no market for the products raised is a detriment to extensive cul-

The greatest mechanical loss India suffers yearly is the erosion of millions of acres of soil. Mr. Higginbottom, in his work on Indian agricultural problems, has developed a method for preventing this loss and is in hopes it will be adopted throughout the country.

Vice-President Vannevar Bush introduced the speaker and conducted the forum after the address had been completed. About sixty students attended the meeting.

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BEN SPENCE SPEAKS ON LIQUOR PROBLEM

(Continued from page one) who will have been introduced by Professor Samuel C. Prescott, dean of

the School of Science.

Mr. Spence was recently a representative of a leading Canadian newspaper at Washington, where he had an excellent opportunity to observe American affairs as a member of the National Press Club, the White House Correspondents' Association, and the Senate Press Gallery. Throughout Canada, Europe, and the United States, he is noted as an authority on the modern liquor problem and the various attempts made to solve it in his own and other countries.

Has Given 139 Similar Meetings

In one year, 1931-32, he visited 139 colleges and universities of the United States, leading forum-discussions, and addressing faculty and student-groups. He has also assisted in numerous sociology, economics, history, and other classes in the discussion of Canadian or other international aspects of the liquor problem.

Many books, pamphlets and magazine articles by Mr. Spence have been distributed in various countries

WAY TO ABOLITION

At a meeting of the T.C.A. Cabinet held at the Tech Cabin last week end the fate of the Tech in Turkey project was discussed for an hour and a half, both sides of the question being thoroughly taken up. A vote was finally taken and the measure for removing the department from the T. C. A. was formally passed. All that remains now is for the Advisory Board to approve this action. It is fairly certain to go through, and Tech in Turkey will be no more. This will cut \$1,000 from the budget of the T. C. A., leaving only \$300 yet to be gained to subscribe the necessary amount of \$3,500.

BEAVER KEY PLANS BASKETBALL DANC

(Continued from page one) institute affairs this year will furn the music. The dance will last fro nine to midnight.

Last year the Beaver Key dance following basketball games were hig ly successful. Students and the guests attended the basketball gar in the early part of the evening a went to the dance after the gam The admission charge to the game covered by the price of the ticks Tickets are seventy-five cents

Chaperones for the affair will Dean and Mrs. Thomas P. Pitre, Pr fessor and Mrs. Alexander Magou and Mrs. Wallace M. Ross.

Tickets for the affair may be o tained from members of the Beav-Key Society. They will be sold the Main Lobby on Thursday and F day, and will also be available at t

The proceeds from these dances a applied toward the expenses of gree ing and entertaining visiting tean which is the prime purpose of the s ciety. Over 150 couples are expecte at the dance.



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